Attorney Docket No. 23133-09966 US Client Ref: 30305232

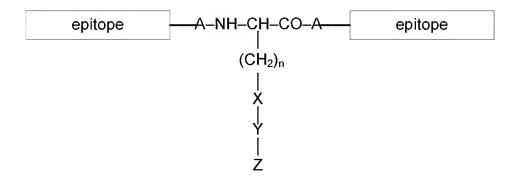
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AMENDMENTS TO THE CLAIMS

1. - 41. (Canceled)

- 42. (Previously Presented) A lipopeptide comprising a polypeptide conjugated to one or more lipid moieties wherein:
 - (i) said polypeptide comprises an amino acid sequence that comprises:
- (a) an amino acid sequence of a T helper cell (Th) epitope and an amino acid sequence of a B cell epitope, wherein said amino acid sequences are different; and
- (b) one or more internal lysine residues for covalent attachment of each of said lipid moieties via an epsilon-amino group of said one or more lysine residues;
- (ii) each of said one or more lipid moieties is covalently attached to the epsilon-amino group of said one or more internal lysine residues; and
 - (iii) said lipopeptide has the general Formula (VI):

Formula (VI):



wherein:

epitope is the T-helper epitope or B-cell epitope;

A is either present or absent and consists of an amino acid spacer of about 1 to about 6 amino acids in length;

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n is an integer having a value of 1, 2, 3, or 4;

X is a terminal side-chain group selected from the group consisting of NH, O and S;

- Y is either present of absent and consists of a spacer of about 1 to about 6 amino acids in length, wherein said spacer comprises arginine, serine or 6-aminohexanoic acid; and
- Z is a lipoamino acid moiety selected from the group consisting of Pam2Cys, Pam3Cys, Ste2Cys, Lau2Cys, and Oct2Cys.
 - 43. (Original) The lipopeptide of claim 42 wherein A is absent.
- 44. (Original) The lipopeptide of claim 43 wherein the B cell epitope comprises the amino acid sequence set forth in SEQ ID NO: 2 or SEQ ID NO: 3 or SEQ ID NO: 4.
- 45. (Original) The lipopeptide of claim 43 wherein: (i) the B cell epitope comprises the amino acid sequence set forth in SEQ ID NO: 101; (ii) Y is present and consists of a serine homodimer; and (iii) Z consists of Pam₂Cys.
- 46. (Previously Presented) The lipopeptide of claim 45 wherein the T helper epitope comprises an amino acid sequence set forth in SEQ ID NO: 24 and wherein the lipid moiety is attached to the polypeptide via the epsilon-amino group of a lysine residue within SEQ ID NO: 24.
- 47. (Original) The lipopeptide of claim 45 wherein the lipid moiety is attached to the polypeptide via Lys-14 of SEQ ID NO: 24.
- 48. (Original) The lipopeptide of claim 43 wherein: (i) the B cell epitope comprises the amino acid sequence set forth in SEQ ID NO: 102; (ii) Y is present and consists of a serine homodimer; and (iii) Z consists of Pam₂Cys.
- 49. (<u>Previously Presented</u>) The lipopeptide of claim 42 capable of upregulating surface expression of at least one MHC class II molecules on immature dendritic cells (DC).

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- 50. (Original) The lipopeptide of claim 49 wherein the DC are D1 cells.
- 51.- 82. (Canceled)
- 83. (Original) A contraceptive agent comprising the lipopeptide according to claim 44.
 - 84. 94. (Canceled)
 - 95. (Original) A vaccine comprising the lipopeptide according to claim 45.
 - 96. 114. (Canceled)